



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER OF PATENTS AND TRADEMARKS
Washington, D.C. 20231
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09 897,320	06 29 2001	George Hsieh	884.462US1	2051

7590

06/17/2002

Schwegman, Lundberg, Woessner, & Kluth, P.A.
P.O. Box 2938
Minneapolis, MN 55103

EXAMINER

THOMPSON, GREGORY D

ART UNIT

PAPER NUMBER

2835

DATE MAILED: 06/17/2002

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/987,320

Applicant(s)

Hsieh

Examiner

Gregory Thompson

Art Unit

2835



-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136 (a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on Jun 29, 2001
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11; 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-30 is/are pending in the application.
- 4a) Of the above, claim(s) _____ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 14, 18-24, and 26-30 is/are allowed.
- 6) ☒ Claim(s) 1-13, 15-17, and 25 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claims _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are objected to by the Examiner.
- 11) ☐ The proposed drawing correction filed on _____ is: a) ☐ approved b) ☐ disapproved.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. § 119

- 13) ☐ Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d).
- a) All b) Some* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- *See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).

Attachment(s)

- 15) ☒ Notice of References Cited (PTO-892)
- 16) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 17) ☒ Information Disclosure Statement(s) (PTO-1449) Paper No(s) 3
- 18) ☐ Interview Summary (PTO-413) Paper No(s) _____
- 19) ☐ Notice of Informal Patent Application (PTO-152)
- 20) ☐ Other: _____

Art Unit: 2835

1. Claims 1-2, 12-13, 15-17 and 25 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claims 1 and 2 confusing. Claim 1 recites pin disposed on the substrate and solder and claim 2 recites pin is adapted to be disposed through the hole and soldered. Can on be through? Claim 4 no antecedent for "the plate".

Claim 12 confusing with claim 1 since there is no antecedent for "the at least one hole".

Claims 15 and 16 confusing for claim 15, line 14 recites pin onto the substrate and claim 16 recites pin is disposed through the hole. Can onto be through as discussed with claims 1 and 2 above?

Claim 15 recites soldering and claim 16 recites wave soldering the pin. Provide consistent language for clarity.

Claims 13, 16-17 confusing for claim 13, recites soldering, claim 16 recites wave soldering and now claim 17 recites wave soldering which is confusing. Provide consistent terms. For example, claim 13, lines 8, 14 and so forth recite just soldering.

Claim 13, lines 3-4 confusing for the material is not disposed on the substrate.

Claim 17, line 1 no clear antecedent for "the pins".

Claim 25 is confusing for inconsistent language is present between "at least one mounting hole, at least one mounting pin, each of the mounting pins, a mounting hole" to provide a clear understanding of claim 25 as to the number of pins and holes.

Art Unit: 2835

Above are examples of 112 problems with some of the claims. All claims should be carefully reviewed for 112 problems and corrected. Above are examples of 112 problems with some of the claims. All claims should be carefully reviewed for 112 problems and corrected.

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-2, 4, 9-12 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by McGaha et al.

3. Claims 1-5, 8-12 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by Wilens.

The sink would be retainer or plate 10 with fins 24.

4. Claims 1, 3, 6-11 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by Funari et al.

The legs 43 are considered pins in the broadest meaning.

The sink in plate 10 with fins 47.

5. Claims 13, 15-17 and 25 would be allowable if rewritten or amended to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action.

6. Claims 14, 18-24 and 26-30 are allowed.

Serial Number: 09/887,320

Page 4

Art Unit: 2835

7. Any inquiry concerning this communication should be directed to Greg Thompson at telephone number (703) 308-2249.

Thompson/ds

06/11/02

Greg Thompson